

Amendments to the Claims

1 Claim 1 (currently amended): A method of programmatically computing street intersections using
2 street geometry, comprising steps of:

3 obtaining street geometry information for a first street;

4 comparing the ~~object~~ obtained street geometry information for the first street to obtained
5 street geometry information for one or more other streets to determine intersecting ones of the
6 one or more other streets; and

7 for each of the intersecting ones, storing a geographic location of a point of the
8 intersection, along with an identification of the first street address and the identification of the
9 intersecting one.

1 Claim 2 (original): The method according to Claim 1, wherein the obtained street geometry
2 information originates from textual address information.

1 Claim 3 (original): The method according to Claim 1, wherein the geographic location comprises
2 latitude and longitude values of the obtained intersection point.

1 Claim 4 (currently amended): The method according to Claim 1, wherein the storing step stores
2 geographic locations ~~are stored~~ as geometric data.

1 Claim 5 (original): The method according to Claim 1, wherein the storing step further comprises

2 the step of storing a reciprocal comprising the geographic location of a point of the intersection,
3 along with the identification of the intersecting one and the identification of the first street
4 address.

1 Claim 6 (original): The method according to Claim 1, wherein the obtained street geometry
2 information is retrieved from a database table.

1 Claim 7 (original): The method according to Claim 1, wherein the obtained street geometry
2 information is dynamically computed from textual address information.

1 Claim 8 (original): The method according to Claim 1, wherein the step of comparing the obtained
2 street geometry further comprises the step of comparing a geometric line representation of the
3 first street to the geometric line representation of each of the one or more other streets.

1 Claim 9 (original): The method according to Claim 8, wherein the step of comparing the obtained
2 street geometry further comprises the step of comparing a bounding box corresponding to the
3 geometric line representation of the first street to the bounding box corresponding to the
4 geometric line representation of each of the one or more other streets, as a precondition to the
5 step of comparing the geometric line representations wherein the step of comparing the geometric
6 line representations is only performed if the step of comparing the bounding boxes determines a
7 potential intersection.

1 Claim 10 (original): The method according to Claim 1, further comprising the step of repeating
2 the obtaining, comparing, and storing steps for at least one of the one or more other streets.

1 Claim 11 (original): The method according to Claim 1, wherein the storing step further comprises
2 the step of creating or updating a row in a relational database table.

1 Claim 12 (currently amended): A system for programmatically computing street intersections
2 using street geometry, comprising:

3 means for obtaining street geometry information for a first street;

4 means for comparing the ~~object~~ obtained street geometry information for the first street to
5 obtained street geometry information for one or more other streets to determine intersecting ones
6 of the one or more other streets; and

7 for each of the intersecting ones, means for storing (1) a geographic location of a point of
8 the intersection, along with an identification of the first street address and the identification of the
9 intersecting one, in a relational database table; and (2) a reciprocal comprising the geographic
10 location of a point of the intersection, along with the identification of the intersecting one and the
11 identification of the first street address.

1 Claim 13 (original): The system according to Claim 12, wherein the geographic location
2 comprises latitude and longitude values of the obtained intersection point.

1 Claim 14 (original): The system according to Claim 12, wherein the means for comparing the
2 obtained street geometry further comprises means for comparing a geometric line representation
3 of the first street to the geometric line representation of each of the one or more other streets.

1 Claim 15 (original): The system according to Claim 14, wherein the means for comparing the
2 obtained street geometry further comprises means for comparing a bounding box corresponding
3 to the geometric line representation of the first street to the bounding box corresponding to the
4 geometric line representation of each of the one or more other streets, as a precondition to
5 operation of the means for comparing the geometric line representations wherein the means for
6 comparing the geometric line representations is only performed if the means for comparing the
7 bounding boxes determines a potential intersection.

1 Claim 16 (currently amended): A computer program product for programmatically computing
2 street intersections using street geometry, the computer program product embodied on one or
3 more computer-readable media and comprising:

4 computer-readable program code means for obtaining street geometry information for a
5 first street;

6 computer-readable program code means for comparing the object obtained street
7 geometry information for the first street to obtained street geometry information for one or more
8 other streets to determine intersecting ones of the one or more other streets;

9 for each of the intersecting ones, computer-readable program code means for storing (1) a
10 geographic location of a point of the intersection, along with an identification of the first street
11 address and the identification of the intersecting one, in a relational database table; and (2) a
12 reciprocal comprising the geographic location of a point of the intersection, along with the
13 identification of the intersecting one and the identification of the first street address; and
14 computer-readable program code means for repeating operation of the computer-readable
15 program code means for obtaining, computer-readable program code means for comparing, and
16 computer-readable program code means for storing, for at least one of the one or more other
17 streets.

1 Claim 17 (original): The computer program product according to Claim 16, wherein the
2 computer-readable program code means for comparing the obtained street geometry further
3 comprises:

4 computer-readable program code means for comparing a bounding box corresponding to
5 the geometric line representation of the first street to the bounding box corresponding to the
6 geometric line representation of each of the one or more other streets; and

7 computer-readable program code means for comparing a geometric line representation
8 wherein the means for comparing the geometric line representation of the first street to the
9 geometric line representation of each of the one or more other streets, if the computer-readable
10 program code means for comparing the bounding boxes determines a potential intersection.